GREENWorks

Ideas for a Cleaner Environment

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Water Conservation During Drought and Beyond

One-third of New Hampshire is classified as "abnormally dry" by the National Drought Mitigation Center at the time of this writing, with drought declarations possible before the end of summer. Water use increases sharply during these types of conditions largely the result of discretionary water use such as lawn irrigation. In fact, it is not unusual for demand to our water systems to more than double during the summer.

At least 65 New Hampshire water systems are known to have implemented some type of outdoor water use restriction. Thus far, the restrictions have not been the result of water shortages in the environment. Rather, they have been needed to address sharp increases in discretionary consumption that water systems are not engineered to accommodate. However, additional restrictions and implementation of water conservation measures become imperative as drought declarations and supply shortages begin to occur.

Water conservation, although effective at addressing short term challenges, is not simply a drought mitigation tool. Incorporating conservation measures into long-term planning may assist with maintaining adequate supplies in the face of population growth, aging infrastructure, and climate change. The following are behavioral changes to consider, which can be instituted immediately to assist with drought, as well as engineering changes that can be implemented over extended periods to ensure efficient use of the resource.

Water Use	Short Term	Long Term
Landscape	Come to terms with landscape	A properly designed landscape in New
Irrigation	irrigation. Is it a priority to spray	Hampshire will require little to no
	potable water on the ground to	irrigation to supplement precipitation.
	maintain a green lawn? A brown	Reduce the size of lawns, ensure
	lawn is not a dying lawn, but grass	adequate topsoil, choose drought tolerant
	that has gone dormant to survive the	grass mixes and locally appropriate
	dry conditions. If a green lawn is a	plantings to have an attractive, self-
	must, irrigate as efficiently as	sustaining landscape. If irrigation is
	possible by basing watering needs	planned, hire an irrigation professional
	on soil moisture at the root zone as	certified by WaterSense to design, install,
	opposed to automatic timers.	and audit the irrigation system.
Fixture	Install inexpensive thread on faucet	Replace older fixtures with new models
Water Use	aerators to reduce faucet flows.	that carry the WaterSense label.
	Utilize displacement devices in toilet	WaterSense fixtures use 20% less water
	tanks. Limit time in the shower to	with no sacrifice in performance. For

	less than five minutes. Turn off the	example, switching to a WaterSense
	faucet when it's not being used, such	toilet will save the average home 11,000
	as while brushing teeth and shaving.	gallons a year and \$64 in utility bills.
Appliance	Run clothes washing machines and	New horizontal axis washing machines
Water Use	dish washers only when they are	use 20 gallons per load compared to an
	full.	average of 43 for conventional washing
		machines. New dishwashers use less than
		7 gallons per load compared to 14 for
		their older counterparts.
Get Creative	Fill a bowl to wash vegetables as	Install rain barrels to capture roof runoff
	opposed to washing them under the	from downspouts and use the water for
	tap, and use the wash water for other	vegetable gardens. Two rain barrels
	purposes like watering indoor plants.	installed in tandem can hold 100 gallons
		of water. A small rain event of a quarter
		of an inch is about 75 gallons on the
		average roof top – enough water to
		sustain your backyard vegetable garden
		through a dry-spell

Although dry-spells and drought provide a good opportunity to reflect on our water use and identify opportunities for efficiency, it's important to incorporate water conservation into our every-day lives. Whether on a private well or public supply; implementing the measures above will save you water and money, help the environment, and assist with maintaining adequate supplies for future growth and economic development.

DES has a series of guidance documents that assist homeowners with reducing water use both inside and outside of the home. Please visit:

http://des.nh.gov/organization/commissioner/pip/factsheets/dwgb/index.htm#efficiency for a complete list of water efficiency fact sheets. Please visit WaterSense at www.epa.gov/watersense/ to learn more about water efficient fixtures or local irrigation professionals certified through the program.